Facility Name: __Norda Inc__

Location: __140 Route 10, East Hanover NJ__

EPA Region: __Region II__

Person(s) in Charge of the Facility: __NJDEP - Bureau of__
__Environmental Evaluation__
__Cleanup and Responsibility Assmt.__

Name of Reviewer: __Robert Roisch__ Date: __8/18/89__

Revised 4/4/90

General Description of the Facility:

(For example: landfill, surface impoundment, pile, container;
types of hazardous substances; location of the facility;
contamination route of major concern; types of information
needed for rating; agency action, etc.)

Major area of concern is area where approximately
3500 drums of process waste were buried during
the 1960s. The major route of concern for
the materials buried is groundwater. An ongoing
ECRA investigation/remediation program
which has addressed most the source and contamination
of the site ~~and~~ is continuing at this time

Scores:

HRS S_M = 46.90 (S_{gw} = 80.76 S_{sw} = 7.83 S_a = 0)

PRO S_M = 55.32 (S_{gw} = 80.76 S_{sw} = 11.75 S_a = 50.0)

HRS COVER SHEET

✱ Note: this is a corrected set of HRS
scoring sheets, sent on April 12, 1990.

249147

Ground Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multi-plier	HRS	Max. Score	PRO
1 Observed Release	0 45	1	45	45	45

If observed release is given a score of 45, proceed to line **4**.

If observed release is given a score of 0, proceed to line **2**.

2 Route Characteristics					
Depth to Aquifer of Concern	0 1 2 3	2		6	
Net Precipitation	0 1 2 3	1		3	
Permeability of the Unsaturated Zone	0 1 2 3	1		3	
Physical State	0 1 2 3	1		3	
Total Route Characteristics Score				15	
3 Containment	0 1 2 3	1		3	

4 Waste Characteristics *Nitrobenzene*					
Toxicity/Persistence	0 3 6 9 12 (15) 18	1	15	18	15
Hazardous Waste Quantity	0 1 2 3 4 5 (6) 7 8	1	6	8	6
Total Waste Characteristics Score			21	26	21

5 Targets					
Ground Water Use	0 1 2 (3)	3	9	9	9
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 (40)	1	40	40	40
Total Targets Score			49	49	49

6 If line **1** is 45, multiply **1** x **4** x **5** If line **1** is 0, multiply **2** x **3** x **4** x **5**		46305	57,330	46305
7 Divide line **6** by 57,330 and multiply by 100	Sgw =	80.76		80.76

Surface Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multi-plier	HRS	Max. Score	PRO
1 Observed Release	0 45	1	O	45	45

If observed release is given a value of 45, proceed to line **4**.
If observed release is given a value of 0, proceed to line **2**.

Rating Factor	Assigned Value (Circle One)	Multi-plier	HRS	Max. Score	PRO
2 Route Characteristics					
Facility Slope and Intervening Terrain	0 ① 2 3	1	1	3	
1-yr. 24-hr. Rainfall	0 1 ② 3	1	2	3	
Distance to Nearest Surface Water	0 1 ② 3	2	4	6	
Physical State	0 1 2 ③	1	3	3	
Total Route Characteristics Score			10	15	
3 Containment	0 1 2 ③	1	3	3	
4 Waste Characteristics					
Toxicity/Persistence	0 3 6 9 12 ⑮ 18	1	15	18	15
Hazardous Waste Quantity	0 1 2 3 4 5 ⑥ 7 8	1	6	8	6
Total Waste Characteristics Score			21	28	21
5 Targets					
Surface Water Use	0 1 ② 3	3	6	9	6
Distance to a Sensitive Environment	0 ① 2 3	2	2	6	2
Population Served/Distance to Water Intake Downstream	⓪ 4 6 8 10 / 12 16 18 20 / 24 30 32 35 40	1	O	40	O
Total Targets Score			8	55	8
6 If line **1** is 45, multiply **1** x **4** x **5**			5040	64,350	7560
If line **1** is 0, multiply **2** x **3** x **4** x **5**					
7 Divide line **6** by 64,350 and multiply by 100		S_{sw} =	7.83		11.75

AIR ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multi-plier	HRS	Max. Score	PRO
1 Observed Release	0 45	1	⊙	45	45
Date and Location:					
Sampling Protocol:					−

If line 1 is 0, the S = 0. Enter on line 5.
If line 1 is 45, then proceed to line 2.

2 Waste Characteristics					
Reactivity and Incompatibility	0 1 2 ③	1		3	3
Toxicity	0 1 ② 3	3		9	6
Hazardous Waste Quantity	0 1 2 3 4 5 ⑥ 7 8	1		8	6
	Total Waste Characteristics Score			20	15

3 Targets					
Population Within 4-Mile Radius	0 9 12 15 18 ㉑ 24 27 30	1		30	21
Distance to Sensitive Environment	0 ① 2 3	2		5	2
Land Use	0 1 2 ③	1		3	3
	Total Targets Score			39	26

4 Multiply 1 × 2 × 3				35,100	17550

5 Divide line 4 by 35,100 and multiply by 100 S a =				⊙	50.0

HRS

	s	s^2
Groundwater Route Score (S_{gw})	80.76	6522.18
Surface Water Route Score (S_{sw})	7.83	61.31
Air Route Score (S_a)	0	0
$s^2_{gw} + s^2_{sw} + s^2_a$		6583.49
$\sqrt{s^2_{gw} + s^2_{sw} + s^2_a}$		81.14
$\sqrt{s^2_{gw} + s^2_{sw} + s^2_a} \Big/ 1.73 = S_M =$		46.90

WORKSHEET FOR COMPUTING S_M

PRO

	s	s^2
Groundwater Route Score (S_{gw})	80.76	6522.18
Surface Water Route Score (S_{sw})	11.75	138.06
Air Route Score (S_a)	50.00	2500.00
$s^2_{gw} + s^2_{sw} + s^2_a$		9160.24
$\sqrt{s^2_{gw} + s^2_{sw} + s^2_a}$		95.71
$\sqrt{s^2_{gw} + s^2_{sw} + s^2_a} \Big/ 1.73 = S_M =$		55.32

WORKSHEET FOR COMPUTING S_M